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OM protein - nucleic search, using frame_plus_p2n model

Run on January 16, 2003, 16:59:22, Search time: 17.1429 seconds
(without alignments)
89,447 Million cell updates/sec

Title: US-09-856-070-18
Perfect score: 24
Sequence: 1 KEEELM 5

Scoring table:

BLASTNM62
Xgapop 10 0 Xgapext 0 5
Ygapop 10 0 Ygapext 0 5
Fgapop 6 0 Fgapext 7 0
Delop 6 0 Delext 7 0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:

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-Q=/cgn2_6/ptodata/2/ina/5A.COMR.seq
-DB=Issued_Patents_NA -QEMI-fastap -SUFFIX=rni -MINMATCH=0.1 -LOOPL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS-human42.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09856070_KEEELM_1_1_61 -RNAME=14012003_155845_1656 -NPR=6 -ICPH 3
-NO_XLPXY -NO_MMMap -LARGEQUERY -NFS_SCORES=0 -WAIT -LANGLW -DEV.TIMEOUT=120
-WARN.TIMEOUT=30 -THRAADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FCAPOP=6 -FCAPEXT=7
-YGAPOP=10 -YGAPEXT=0.5 -DELEXT=7

Database : Issued_Patents_NA:

- 1: /cgn2_6/ptodata/2/ina/5A.COMR.seq *
- 2: /cgn2_6/ptodata/2/ina/5A.COMR.seq *
- 3: /cgn2_6/ptodata/2/ina/5A.COMR.seq *
- 4: /cgn2_6/ptodata/2/ina/5A.COMR.seq *
- 5: /cgn2_6/ptodata/2/ina/5A.COMR.seq *
- 6: /cgn2_6/ptodata/2/ina/5A.COMR.seq *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No	Score	Query Match	Length	DB ID	Description
C 1	24	100.0	20	4	US-09-657-481A-28
2	24	100.0	44	4	US-09-291-874-3
3	24	100.0	56	4	US-09-291-874-15
4	24	100.0	539	4	US-09-605-785-310
5	24	100.0	539	4	US-09-439-313-310
6	24	100.0	539	4	US-09-352-616A-310
7	24	100.0	539	4	US-09-232-149A-310
8	24	100.0	591	2	US-08-342-766A-17
9	24	100.0	728	4	US-08-896-164-53
10	24	100.0	940	1	US-08-410-167A-1
11	24	100.0	993	1	US-08-705-377-1
12	24	100.0	993	1	US-08-705-377-2

13	24	100.0	993	1	US-08-705-377-3
14	24	100.0	993	1	US-08-705-377-4
15	24	100.0	993	1	US-08-705-377-5
16	24	100.0	993	1	US-08-705-377-6
17	24	100.0	993	2	US-09-052-962-1
18	24	100.0	993	2	US-09-052-962-2
19	24	100.0	993	2	US-09-052-962-3
20	24	100.0	993	2	US-09-052-962-4
21	24	100.0	993	2	US-09-052-962-5
22	24	100.0	993	2	US-09-052-962-6
23	24	100.0	993	2	US-09-053-068-1
24	24	100.0	993	2	US-09-053-068-2
25	24	100.0	993	2	US-09-053-068-3
26	24	100.0	993	2	US-09-053-068-4
27	24	100.0	993	2	US-09-053-068-5
28	24	100.0	993	2	US-09-053-068-6
29	24	100.0	993	2	US-08-898-560-2
30	24	100.0	993	4	US-09-101-126-2
31	24	100.0	1117	4	US-09-177-650-120
32	24	100.0	1455	1	US-08-446-803-5
33	24	100.0	1455	2	US-08-861-837-5
34	24	100.0	1455	3	US-08-600-656-5
35	24	100.0	1455	4	US-09-170-670-10
36	24	100.0	1455	4	US-09-193-068-10
37	24	100.0	1455	4	US-09-193-068-14
38	24	100.0	1455	4	US-09-183-412-10
39	24	100.0	1455	4	US-09-183-412-14
40	24	100.0	1455	4	US-09-354-191A-5
41	24	100.0	1455	4	US-09-290-734-10
42	24	100.0	1455	4	US-09-290-734-15
43	24	100.0	1689	1	US-07-991-867B-41
44	24	100.0	1689	2	US-08-544-332-41
45	24	100.0	1689	2	US-08-544-332-41

ALIGNMENTS

RESULT 1

US-09-657-481A-28/c
Sequence 28, Application US/09657481A
Patent No. 6258601

GENERAL INFORMATION:

APPLICANT: Lex M. Cowart

APPLICANT: Brett P. Monia

TITLE OF INVENTION: ANTISENSE MODULATION OF UBIQUITIN PROTEIN LIGASE WWP1 AND

FILE REFERENCE: PTS 0087

CURRENT APPLICATION NUMBER: US/09/657,481A

CURRENT FILING DATE: 2000-09-07

NUMBER OF SEQ ID NOS: 93

SEQ ID NO 28

LENGTH: 20

TYPE: DNA

FEATURE: Artificial Sequence

OTHER INFORMATION: Antisense oligonucleotide

US-09-657-481A-28

Alignment Scores:	9.02	length:	20
Prod. No.:	24.00	Matches:	5
Score:	100.00%	Mismatches:	0
Best Local Similarity:	100.00%	Indels:	0
Query Match:	100.00%	Gaps:	0
DB:	4		

US-09-856-070-18 (1-5) x US-09-657-481A-28 (1-20)

Q: 1 LysGluGluLeuMet 5

|||||

DE 17 AAGAGAGATGATG 3

RESULT 2

```

US 09-291-874-3
; Sequence 3, Application US/09291874
; Patent No. 6436694
; GENERAL INFORMATION:
; APPLICANT: Francis P. Jally
; APPLICANT: Jianshi Tao
; APPLICANT: Xiaoyu Shen
; APPLICANT: Jiansu Zhang
; TITLE OF INVENTION: Regulable Gene Expression in
; FILE REFERENCE: GP/98-03p9MA2
; CURRENT APPLICATION NUMBER: US/09/291,874
; EARLIER FILING DATE: 1999-04-14
; EARLIER APPLICATION NUMBER: 60/122,949
; EARLIER FILING DATE: 1999-03-05
; EARLIER APPLICATION NUMBER: 09/227,687
; EARLIER FILING DATE: 1999-01-08
; EARLIER APPLICATION NUMBER: 60/107,751
; EARLIER FILING DATE: 1998-11-10
; EARLIER APPLICATION NUMBER: 60/101,718
; EARLIER FILING DATE: 1998-09-24
; EARLIER APPLICATION NUMBER: 60/100,211
; EARLIER FILING DATE: 1998-09-14
; EARLIER APPLICATION NUMBER: 60/094,698
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/089,828
; EARLIER FILING DATE: 1998-06-19
; EARLIER APPLICATION NUMBER: 60/085,844
; EARLIER FILING DATE: 1998-05-18
; EARLIER APPLICATION NUMBER: 60/081,753
; EARLIER FILING DATE: 1998-04-14
; EARLIER APPLICATION NUMBER: 60/076,638
; EARLIER FILING DATE: 1998-03-03
; EARLIER APPLICATION NUMBER: 60/070,965
; EARLIER FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 34
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US 09-291-874-3
Alignment Scores:
Pred. No.: 16 Length: 34
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 4
US-09-856-070-18 (1-5) x US-09-291-874-3 (1-34)
QY 1 LysGluGluLeuMet 5
Db 12 AAGAGGAATTAATG 26
RESULT 3
US 09-291-874-15
; Sequence 15, Application US/09291874
; Patent No. 6436694
; GENERAL INFORMATION:
; APPLICANT: Francis P. Jally
; APPLICANT: Jianshi Tao
; APPLICANT: Xiaoyu Shen
; APPLICANT: Jiansu Zhang
; TITLE OF INVENTION: Regulable Gene Expression in
; FILE REFERENCE: GP/98-03p9MA2
; CURRENT APPLICATION NUMBER: US/09/291,874
; CURRENT FILING DATE: 1999-04-14

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; EARLIER APPLICATION NUMBER: 60/122,949
; EARLIER FILING DATE: 1999-03-05
; EARLIER APPLICATION NUMBER: 09/227,687
; EARLIER FILING DATE: 1999-01-08
; EARLIER APPLICATION NUMBER: 60/107,751
; EARLIER FILING DATE: 1998-11-10
; EARLIER APPLICATION NUMBER: 60/101,718
; EARLIER FILING DATE: 1998-09-24
; EARLIER APPLICATION NUMBER: 60/100,211
; EARLIER FILING DATE: 1998-09-14
; EARLIER APPLICATION NUMBER: 60/094,698
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/089,828
; EARLIER FILING DATE: 1998-06-19
; EARLIER APPLICATION NUMBER: 60/085,844
; EARLIER FILING DATE: 1998-05-18
; EARLIER APPLICATION NUMBER: 60/081,753
; EARLIER FILING DATE: 1998-04-14
; EARLIER APPLICATION NUMBER: 60/076,638
; EARLIER FILING DATE: 1998-03-03
; EARLIER APPLICATION NUMBER: 60/070,965
; EARLIER FILING DATE: 1998-01-09
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 56
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-09-291-874-15
Alignment Scores:
Pred. No.: 27-5 Length: 56
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
Gaps: 4
US-09-856-070-18 (1-5) x US-09-291-874-15 (1-56)
QY 1 LysGluGluLeuMet 5
Db 18 AAGAGGAATTAATG 32
RESULT 4
US-09-605-785-310
; Sequence 310, Application US/09605785
; Patent No. 6321716
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wanq, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 21021.427C16
; CURRENT APPLICATION NUMBER: US/09/605,785
; CURRENT FILING DATE: 2000-06-27

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; NUMBER OF SEQ ID NOS: 835
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 310
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-605-785-310

Alignment Scores:
Pred. No.: 320 Length: 539
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-09-856-070-18 (1-5) x US-09-605-785-310 (1-539)
QY 1 LysGluGluLeuMet 5
DB 464 AAGGAAGAACTTATG 478

RESULT 5
US-09-439-313-310
; Sequence 310, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 310
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-439-313-310

Alignment Scores:
Pred. No.: 320 Length: 539
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-09-856-070-18 (1-5) x US-09-439-313-310 (1-539)
QY 1 LysGluGluLeuMet 5
DB 464 AAGGAAGAACTTATG 478

RESULT 6
US-09-352-616A-310
; Sequence 310, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqui
```

```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 310
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-310

Alignment Scores:
Pred. No.: 320 Length: 539
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-09-856-070-18 (1-5) x US-09-352-616A-310 (1-539)
QY 1 LysGluGluLeuMet 5
DB 464 AAGGAAGAACTTATG 478

RESULT 7
US-09-232-149A-310
; Sequence 310, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 438
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 310
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-310

Alignment Scores:
Pred. No.: 420 Length: 539
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 4 Gaps: 0

US-09-856-070-18 (1-5) x US-09-232-149A-310 (1-539)
QY 1 LysGluGluLeuMet 5
DB 464 AAGGAAGAACTTATG 478

RESULT 8
US-08-332-766A-17
; Sequence 17, Application US/08332766A
; Patent No. 5843647
; GENERAL INFORMATION:
; APPLICANT: JEFFREYS, Alec J.
; APPLICANT: ARMOUR, John
; TITLE OF INVENTION: SIMPLE TANDEM REPEATS
; NUMBER OF SEQUENCES: 125
```

; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: CUSHMAN DARRY & CUSHMAN, L.L.P.
 ; STREET: 1100 New York Avenue, N.W.
 ; CITY: Washington
 ; STATE: D. C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20005-3918
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/332,766A
 ; FILING DATE: 01-NOV-1994
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: GR 9326052.9
 ; FILING DATE: 21-DEC 1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: BIRD, Donald J.
 ; REGISTRATION NUMBER: 25,423
 ; REFERENCE/DOCKET NUMBER: 217211/894/0434/GB
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (202) 861-3000
 ; TELEFAX: (202) 822-0944
 ; INFORMATION FOR SEQ ID NO: 17:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 591 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; US-08-332-766A-17

Alignment Scores:
 Pred. No.: 354 Length: 591
 Score: 24.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 Gaps: 0

US-09-856-070-18 (1-5) x US-08-332-766A-17 (1-591)

QY 1 LysGlulGluLeuMet 5
 DB 282 AAGACGAATTAATG 296

RESULT 9

; US-08-332-766A-53
 ; Sequence 53, Application US/08896164
 ; Patent No. 6218521
 ; GENERAL INFORMATION:
 ; APPLICANT: ORATA, Yuichi
 ; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES ASSOCIATED
 ; WITH GASTRIC CANCER AND METHODS FOR
 ; DIAGNOSING AND TREATING GASTRIC CANCER
 ; NUMBER OF SEQUENCES: 87
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Peife & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York City
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 3.50 inch, 1.44mb
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect
 ; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/896,164
 ; FILING DATE: July 17, 1997
 ; CLASSIFICATION: 424
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 6218521man D. Hanson
 ; REGISTRATION NUMBER: 30,946
 ; REFERENCE/DOCKET NUMBER: 100 5499 - JET/NIH/SLH
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 688-9200
 ; TELEFAX: (212) 638-3884
 ; INFORMATION FOR SEQ ID NO: 53:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 728 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; US-08-896-164-53
 Alignment Scores:
 Pred. No.: 444 Length: 728
 Score: 24.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 Gaps: 0

US-09-856-070-18 (1-5) x US-08-896-164-53 (1-728)

QY 1 LysGlulGluLeuMet 5
 DB 232 AAGACGAATTAATG 246

RESULT 10
 ; US-08-410-167A-1
 ; Sequence 1, Application US/08410167A
 ; Patent No. 5773273
 ; GENERAL INFORMATION:
 ; APPLICANT: Tokuzo NISHINO, Shinichi OHNUMA, Manabu SUZUKI,
 ; Chikara OHIO, Chika ASADA, Yuka HIGUCHI, Yoshie TAKEUCHI
 ; TITLE OF INVENTION: Geranylgeranyl Diphosphate Synthase and DNA
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Kenyon & Kenyon
 ; STREET: One Broadway
 ; CITY: New York
 ; STATE: NY
 ; COUNTRY: US
 ; ZIP: 10004
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3+ Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS 6.2
 ; SOFTWARE: Wordperfect 6.1 Windows
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/410,167A
 ; FILING DATE: 24-MAR-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 6-53804
 ; FILING DATE: 24-MAR-1994
 ; APPLICATION NUMBER: JP 6-315572
 ; FILING DATE: 25-NOV-1994
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Edward W. Greason
 ; REGISTRATION NUMBER: 18,918
 ; REFERENCE/DOCKET NUMBER:
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 425-7300
 ; TELEFAX: (212) 425-5288
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 990 base pairs

TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 HYPOTHEetical: NO
 ORIGINAL SOURCE:
 ORGANISM: Sulfolobus acidocaldarius
 STRAIN: ATCC 33909
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1-990
 US-08-410-167A-1

Alignment Scores:
 Pred. No.: 619 Length: 990
 Score: 24.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 1 Gaps: 0

US-09-856-070-18 (1-5) x US-08-410-167A-1 (1-990)

QY 1 LysGluGluLeuMet 5
 Db 811 AAAGAAGAAATTAATG 825

RESULT 11

US-08-705-377-1
 Sequence 1, Application US/08705377
 Patent No. 5807725

GENERAL INFORMATION:

APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi,
 APPLICANT: NISHINO, Tokuzo, HIROOKA, Kazutake, HEMMI, Hisashi
 TITLE OF INVENTION: Long Chain Phenyl Diphosphate Synthase
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Kenyon & Kenyon
 STREET: 1025 Connecticut Avenue, N.W., Suite 600
 CITY: Washington
 STATE: DC
 COUNTRY: USA
 ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch Diskette
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WordPerfect 6.1 Windows
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/705,377
 FILING DATE: 29-AUG-1996
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP /247043
 FILING DATE: 01 SEP 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Toffenetti, Judith L.
 REGISTRATION NUMBER: 39,048
 REFERENCE/DOCKET NUMBER: 77670/442
 TELEPHONE: 202-429-0796
 TELEFAX: 202-429-0796

INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 993
 TYPE: Nucleic acid
 STRANDEDNESS: Double
 TOPOLOGY: Linear

MOLECULE TYPE: Genomic DNA
 ORIGINAL SOURCE:
 ORGANISM: Sulfolobus acidocaldarius
 US-08-705-377-1

Alignment Scores:
 Pred. No.: 621 Length: 993
 Score: 24.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 1 Gaps: 0

US-09-856-070-18 (1-5) x US-08-705-377-1 (1-993)

QY 1 LysGluGluLeuMet 5
 Db 811 AAAGAAGAAATTAATG 825

RESULT 12

US-08-705-377-2
 Sequence 2, Application US/08705377
 Patent No. 5807725

GENERAL INFORMATION:

APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi,
 APPLICANT: NISHINO, Tokuzo, HIROOKA, Kazutake, HEMMI, Hisashi
 TITLE OF INVENTION: Long-Chain Phenyl Diphosphate Synthase
 NUMBER OF SEQUENCES: 9
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Kenyon & Kenyon
 STREET: 1025 Connecticut Avenue, N.W., Suite 600
 CITY: Washington
 STATE: DC
 COUNTRY: USA
 ZIP: 20036

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch Diskette
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WordPerfect 6.1 Windows
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/705,377
 FILING DATE: 29-AUG-1996
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: JP 7247043
 FILING DATE: 01 SEP 1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Toffenetti, Judith L.
 REGISTRATION NUMBER: 39,048
 REFERENCE/DOCKET NUMBER: 77670/442
 TELEPHONE: 202-429-0796
 TELEFAX: 202-429-0796

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 993
 TYPE: Nucleic acid
 STRANDEDNESS: Double
 TOPOLOGY: Linear

MOLECULE TYPE: Mutated genomic DNA
 US-08-705-377-2

Alignment Scores:
 Pred. No.: 621 Length: 993
 Score: 24.00 Matches: 5
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 1 Gaps: 0

US-09-856-070-18 (1-5) x US-08-705-377-2 (1-993)

QY 1 LysGluGluLeuMet 5
 Db 811 AAAGAAGAAATTAATG 825

RESULT 13

```

US-08-705-377-3
: Sequence 3, Application US/08705377
: Patent No. 5807725
: GENERAL INFORMATION:
: APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi,
: APPLICANT: NISHINO, Tokuzo, HIROOKA, Kazutake, HEMMI, Hisashi
: TITLE OF INVENTION: Long Chain Prenyl Diphosphate Synthase
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Kenyon & Kenyon
: STREET: 1025 Connecticut Avenue, N.W., Suite 600
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 3.5 inch Diskette
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: WordPerfect 6.1 Windows
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/705,377
: FILING DATE: 29-AUG-1996
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 7247043
: FILING DATE: 01 SEP 1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Toffenetti, Judith L.
: REGISTRATION NUMBER: 39,048
: REFERENCE/DOCKET NUMBER: 77670/442
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-429-1776
: TELEFAX: 202-429-0796
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 993
: TYPE: Nucleic acid
: STRANDEDNESS: Double strand
: TOPOLOGY: Linear
: MOLECULE TYPE: Mutated genomic DNA
US-08-705-377-3

```

```

Alignment Scores:
Pred. No.: 621 Length: 993
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 1 Gaps: 0

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US-09-856-070-18 (1-5) x US-08-705-377-3 (1-993)

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QY 1 LysGluGluLeuMet 5
| | | | | | | | | |
DB 811 AAGAAGAAATTAATG 825

```

```

RESULT 14
US-08-705-377-4
: Sequence 4, Application US/08705377
: Patent No. 5807725
: GENERAL INFORMATION:
: APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi,
: APPLICANT: NISHINO, Tokuzo, HIROOKA, Kazutake, HEMMI, Hisashi
: TITLE OF INVENTION: Long-Chain Prenyl Diphosphate Synthase
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Kenyon & Kenyon
: STREET: 1025 Connecticut Avenue, N.W., Suite 600
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20036

```

```

: COMPUTER READABLE FORM:
: MEDIUM TYPE: 3.5 inch Diskette
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: WordPerfect 6.1 Windows
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/705,377
: FILING DATE: 29-AUG-1996
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 7247043
: FILING DATE: 01 SEP 1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Toffenetti, Judith L.
: REGISTRATION NUMBER: 39,048
: REFERENCE/DOCKET NUMBER: 77670/442
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-429-1776
: TELEFAX: 202-429-0796
: INFORMATION FOR SEQ ID NO: 4:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 993
: TYPE: Nucleic acid
: STRANDEDNESS: Double strand
: TOPOLOGY: Linear
: MOLECULE TYPE: Mutated genomic DNA
US-08-705-377-4

```

```

Alignment Scores:
Pred. No.: 621 Length: 993
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 1 Gaps: 0

```

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US-09-856-070-18 (1-5) x US-08-705-377-4 (1-993)

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QY 1 LysGluGluLeuMet 5
| | | | | | | | | |
DB 811 AAGAAGAAATTAATG 825

```

```

RESULT 15
US-08-705-377-5
: Sequence 5, Application US/08705377
: Patent No. 5807725
: GENERAL INFORMATION:
: APPLICANT: OHIO, Chikara, ASADA, Chika, OHNUMA, Shinichi,
: APPLICANT: NISHINO, Tokuzo, HIROOKA, Kazutake, HEMMI, Hisashi
: TITLE OF INVENTION: Long-Chain Prenyl Diphosphate Synthase
: NUMBER OF SEQUENCES: 9
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Kenyon & Kenyon
: STREET: 1025 Connecticut Avenue, N.W., Suite 600
: CITY: Washington
: STATE: DC
: COUNTRY: USA
: ZIP: 20036

```

```

: COMPUTER READABLE FORM:
: MEDIUM TYPE: 3.5 inch Diskette
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: WordPerfect 6.1 Windows
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/705,377
: FILING DATE: 29-AUG-1996
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 7247043
: FILING DATE: 01 SEP 1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Toffenetti, Judith L.
: REGISTRATION NUMBER: 39,048

```

```

: REFERENCE/TICKET NUMBER: 77670/442
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-429-1776
: TELEFAX: 202-429-0796
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 993
: TYPE: Nucleic acid
: STRANDEDNESS: Double strand
: TOPOLOGY: Linear
: MOLECULE TYPE: Mutated genomic DNA
US-08-705-377-5

```

```

Alignment Scores:
Pred. No.: 621 Length: 993
Score: 24.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 1 Gaps: 0

```

US-09-856-070-18 (1-5) x US-08-705-377-5 (1-993)

```

Qy 1 LysGluGluLeuMet 5
Db 811 AAAGAGAGATTATG 825

```

Search completed: January 16, 2003, 21:41:23
Job time : 19.1429 secs

